

APPENDIX B

Restoration and Protection Projects

For watershed recovery to provide tangible benefits for fish and wildlife, the strategy and projects need to answer and/or properly address several questions regarding historical and intended watershed conditions and uses (appendix G). This is needed to ensure that watershed problems, fish and wildlife resources, and potential recovery projects are adequately linked. Further, there must be a mechanism to provide project viability and longevity, evaluation, and to analyze ecosystem effects. These biological concerns can be merged with other political, social, economic, coordination, and evaluation inquiries to form a well-rounded strategy.

Through this WRIP task, completed and planned salmonid habitat protection and restoration projects were identified. No attempt was made to correlate these projects with watershed assessment findings or to screen these projects for their ability to affect the health of salmonid populations. To ensure the effectiveness of the planned projects in future recovery efforts, these steps should be taken.

Steps to Successful Habitat Restoration:

- Identify a Problem and Location
- Develop Partnerships
- Assess Species and Habitat Quality and Quantity
- Identify Limiting Factors
- Develop an Implementation Plan
- Design and Permit Priority Projects
- Develop Performance Measures
- Construct Projects
- Monitor and Evaluate Success

For the purposes of this task, restoration was defined as:

An effort of returning site conditions (fish and wildlife habitat) to a previous functional condition. Examples of projects include, but are not limited to, fish passage improvement, integrated streambank protection, and road abandonment.

Protection was identified as:

An effort which prevents degradation of functional condition. Examples of projects include stream typing or conservation easements.

Information was summarized for publication in this report. For the complete information collected, download the WRIP spreadsheets from the Washington Department of Fish and Wildlife homepage (www.wa.gov/wdfw/).

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
1	1	Airport Creek #1	Instream		
2	1	Airport Creek #2			
3	1	Anderson Creek	Instream		
4	1	Andreason Ditch	Instream & Riparian planting & Fencing		
5	1	Bertrand Creek Tributary			
6	1	Black Slough #1			
7	1	Black Slough #2			
8	1	Black Slough #3			
9	1	Cain Lake Tributary	Assist (Instream)		
10	1	California Creek #1	Fencing (future Riparian planting)		
11	1	California Creek #2	Fencing		
12	1	California Creek #3			
13	1	California Creek Grandview Industrial Park #4	Instream (Riparian planting by landowner)		
14	1	California Creek #5			
15	1	California Creek #6			
16	1	California Creek Main Ditch #7			
17	1	California Creek #8	Instream & Fencing & Other construction & (future Riparian planting)		
18	1	California Creek #9			
19	1	California Creek Tributary #10			
20	1	California Creek Tributary #11			
21	1	California Creek #12			
22	1	Carpenter Creek Boy Scouts of America			
23	1	Chuckanut Creek Bellingham Parks and Recreation Dept	Instream		
24	1	Connely Creek			
25	1	Dakota Creek Custer School Road #1			
26	1	Dakota Creek #2			
27	1	Dakota Creek #3	Instream & Fencing & Other construction		
28	1	Dakota Creek Sunrise Church #4			
29	1	Deadhorse Creek USFS	Instream		
30	1	Deer Creek #1	Instream & Riparian planting & Fencing		
31	1	Deer Creek #2			
32	1	Deer Creek #3	M&M		

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
33	1	Deer Creek Larabee Springs Taraoka No Bellingham Golf Course #4			
34	1	Deer Creek #5	Instream & Fencing & Other construction		
35	1	Deer Creek #6	Riparian planting		
36	1	Deer Creek #7	Instream & Fencing (future Riparian planting)		
37	1	Deer Creek #8	Riparian planting		
38	1	Double Ditch #9	Instream & Riparian planting & Fencing		
39	1	Ferry Creek Lake Samish			
40	1	Fishtrap Creek Bertrand Creek Badger Road #1			
41	1	Fishtrap Creek Homestead Golf Course #2	Revegetate stream banks.		
42	1	Fourmile Creek #1	Riparian planting & Fencing		
43	1	Fourmile Creek #2			
44	1	Fourmile Creek #3	Riparian planting & Fencing		
45	1	Fourmile Creek #4	Instream		
46	1	Fourmile Creek #5	Instream & Riparian planting		
47	1	Fourmile Creek #6			
48	1	Fourmile Creek #7			
49	1	Fourmile Creek #8	Riparian planting		
50	1	Fourmile Creek #9	Instream & Riparian planting		
51	1	Friday Creek Lake Samish			
52	1	Goodwin Creek Juvenile Court			
53	1	Haynie Creek Dakota Creek Golf Course	Instream & Riparian planting		
54	1	Johnson Creek (5mi stretch) #1			
55	1	Johnson Creek (5mi stretch) #2	Riparian planting site preparation		
56	1	Johnson Creek (5mi stretch) #3	Riparian planting site preparation		
57	1	Johnson Creek (5mi stretch) #4	Riparian planting site preparation		
58	1	Johnson Creek (5mi stretch) #5	Riparian planting site preparation		
59	1	Kneuman Creek Sitesmith	Riparian planting site preparation		
60	1	Johnson Creek (5mi stretch) #6	Riparian planting site preparation		
61	1	Johnson Creek (5mi stretch) #7	Riparian planting site preparation		
62	1	Johnson Creek (5mi stretch) #8	Riparian planting site preparation		
63	1	Johnson Creek (5mi stretch) #9	Riparian planting site preparation		
64	1	Johnson Creek (5mi stretch) #10	Riparian planting site preparation		

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ENTRY #	WRIA	Project Title	Description	Status	Cost
65	1	Johnson Creek (5mi stretch) #11	Riparian planting site preparation		
66	1	Jordan Creek Nooksack			
67	1	Kamm Creek #1	Instream & Riparian planting		
68	1	Kamm Creek #2	M&M		
69	1	Kamm Creek #3	Riparian planting & M&M		
70	1	Kamm Creek #4	Instream & Riparian planting		
71	1	Kamm Creek #5			
72	1	Kamm Creek #6	Riparian planting & Fencing		
73	1	Kamm Creek #7	M&M		
74	1	Kendall Creek	Fencing & Riparian planting & Other construction		
75	1	Kidney Creek Acclimation Pond Tribe & USFS	Repair leaking outflow structure at remote acclimation pond		
76	1	Lincoln Creek Bellingham High School			
77	1	Lincoln Creek Haskel Business Center			
78	1	Main Stem			
79	1	Mitchel Creek #1			
80	1	Mitchell Creek #2			
81	1	Mitchell Creek #3	Instream & Riparian planting		
82	1	Nesset's Slough 4th Corner FF	Instream		
83	1	North Fork Nooksack River	Fencing (future vol Riparian planting)		
84	1	Oyster Creek	Instream & Riparian Planting		
85	1	Padden Creek City of Bellingham Public Works #1			
86	1	Padden Creek City of Bellingham Public Works #2			
87	1	Reservoir Creek	Instream & Riparian planting		
88	1	Saar Creek Nooksack Valley High School District	Riparian planting		
89	1	Schell Creek Ferndale & North Whatcom Rotary	Instream & Riparian planting		
90	1	Schell Creek Imhoff	Instream & Riparian planting		
91	1	Silver Creek			
92	1	Skookum Creek Hole	Instream		
93	1	Spooner Creek Dakota Creek			
94	1	Squalicum Creek Ladder			
95	1	Squalicum Creek Meridian Street Culvert			
96	1	Squalicum Creek Squalicum Parkway			

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ENTRY #	WRIA	Project Title	Description	Status	Cost
97	1	Squalicum Creek Stables	Fencing		
98	1	Squalicum Creek WWU	Fence one side		
99	1	Squaw Creek #1			
100	1	Squaw Creek #2			
101	1	Squaw Creek #3			
102	1	Squaw Creek #4			
103	1	Squaw Creek #5	Riparian planting site preparation		
104	1	Tenmile Creek #1	Instream		
105	1	Tenmile Creek Elementary School #2	Improve & maintain existing project		
106	1	Tenmile Creek #3			
107	1	Tenmile Creek #4			
108	1	Tenmile Creek Shuksan Golf Course #5	Increase rearing & spawning habitat		
109	1	Tenmile Creek #6	Instream & Riparian planting		
110	1	Tenmile Creek Van #7	Instream		
111	1	Tenmile Creek Van Kooten Crossing #8	Instream & Fencing & Riparian planting		
112	1	Tenmile Creek #9			
113	1	Tennet Creek			
114	1	Terell Creek ARCO			
115	1	Terell Creek Future Site			
116	1	Whatcom Creek Culvert			
117	1	Whatcom Creek Hatchery			
118	1	Whatcom Creek Riparian			
119	1	Whatcom Creek Woburn St Crossing			
120	1	Whatcom Creek WTA			
121	1		Dairy waste management		\$600,000
122	1		Sediment reduction		\$600,000
123	1	Wetland Restoration Project	Samish Bay-Colony Creek		
124	1	Colony Cr.-Blanchard Sub Flood Control Zone			\$333,333
125	1		Identify critical resource areas that require special protection		\$20,000
126	1		LWD/boulder placement		\$490,000
127	1	City of Blaine	Wastewater Reuse		\$1,100,000
128	1	Birch Bay Water & Sewer Dist	New Water Supply		\$5,800,000

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ENTRY #	WRIA	Project Title	Description	Status	Cost
129	1		Boulder placement		
130	1		Stream bank restoration & reveg to control flood hazard		\$200,000
131	1	Lower Friday Creek Project	Riparian revegetation of rural stream and fencing completed	Complete	\$6,720
132	1	Friday Creek Project	Erosion control, rechanneling stream, add rip-rap	Complete	\$7,000
133	1	Cain Lake Creek Restoration	500 ft. restoration, weir, LWD placement, RSI site	Complete	\$3,740
134	1	Bob Smith Creek Project	1500 ft. agricultural stream rest. new channel/pond/RSI site	Complete	\$750
135	1	Mud Creek Project	400 ft. spawning channel restored, RSI site	Complete	\$4,450
136	1	Noosack Watershed		Planned Comple.	
137	1	Noosack Watershed		Planned Comple.	
138	1	Larrabee/Chuckanut Ph 2, #96-123A	Extend Larrabee State Park north towards Bellingham	planned	\$1,800,000
139	1		Private property on Kendal Cr.	potential	
140	1		Private property projects	potential	
141	1	Haynie Creek Habitat Restoration	Restore spawning & rearing habitat	proposed	\$11,000
142	1	Silver Creek Fishway	Provide fish passage above a man-made spillway	proposed	\$12,000
143	1	Schell Creek Habitat Project	Restore channel & off-channel habitat	proposed	\$12,000
144	1	Blaine High Shool Salmon Brood Stock Program	Construct fish trap	proposed	\$75,000
145	1	Bellingham Marine heritage Centr Hatchery Intake Upgrade	Provide short term rearing capacity for 2-3 million juvenile chinook	proposed	\$65,000
146	1	Padden Creek Fishway Improvement	Improve fish passage	proposed	\$8,000
147	1		Whatcom CD	proposed	\$15,000
148	1		Sediment Reduction	proposed	\$600,000
149	1		Fishway rebuild	proposed	\$40,000
150	1		Stream bank restoration	proposed	\$200,000
151	1		LWD & boulder placement	proposed	\$490,000
152	2	Cattle Point #96-283A	Acquisition along Griffin Bay	planned	\$732,425

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
153	3	Watershed Restoration			
154	3		4950 Ft. Channel Regrade, 2000 ft. fenced, 5910 ft. reveg.		
155	3	Hansen Watershed	2,000 Ft. Bank Protection & revegetation, Special Cattle Crossing	Complete	\$10,000
156	3	Sorenson Creek Project	100 ft rural stream channel relocation & pool development	Complete	\$12,000
157	3	Watershed Restoration		Complete	\$22,000
158	3	Hansen Watershed	Restore 950 ft. of channel, reveg. 43 LWD, 870 ft. rock place.	Complete	\$10,000
159	3	Hansen Watershed	4,950 Ft. Bank stabilization, 45 LWD & Rock, Regrade	Complete	\$10,000
160	3	Hansen Watershed	Bank protection of 630 ft. with 23 log structures, revegetation	Complete	\$10,000
161	3	Brickyard Creek Project	Replace culvert, install fish ladder	Complete	\$450
162	3	Oak Harbor Net Pens	Delayed release chinook net pens	Complete	\$4,592
163	3	Jiles Park Project	1300 ft. urban stream restored and revegetated	Needs follow-up	\$7,500
164	3	Anderson Creek Fencing	Fencing rural stream	Ongoing	\$6,527
165	3	Hansen Watershed	7,320 ft. LWD (73 structures), 490 cu Yd. Rock,	Ongoing	\$80,000
166	3	Fidalgo Island Net Pens	Delayed release chinook & coho net pens	Ongoing	\$36,000
167	3	Habitat Enhancment & Stream Rest.	Stream restoration, restore spawning channel	Planned	\$20,000
168	3	Watershed Restoration		Planned Comple.	\$23,000
169	3	Cypress Is. NRCA #96-040A	85 acqusition in Skagit Co	planned	\$1,000,000
170	3	Nookachamps creek Habitat Restoration	Restore spawning & rearing habitat	proposed	\$30,000
171	3	Nookachamps Creek Fencing	Exclude livestock by constructing a fence	proposed	\$20,000
172	3	Silver Creek Habitat Project	Retore salmon habitat in the creek channel	proposed	\$12,000
173	3	Samish River Bank stabilization	Stabilize 4 major bank failures	proposed	\$80,000
174	4	Skagit Co PUD & Anacortes	Water transfer		\$18,110,000
175	4	LaConner Storm Wate Drain Sys	Upgrade and install new systems		\$2,700,000
176	4	Skagit Co PUD #1	Evaluate vitamin C		\$24,000

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ENTRY #	WRI	Project Title	Description	Status	Cost
177	4	Sedro Woolley WWPT & Sewer	Improve water quality		\$10,000,000
178	4	Mt Vernon CSO & WWTP	Upgrade system		\$825,000
179	4	Mt Vernon CSO & WWTP	Upgrade older areas		\$13,512,000
180	4			potential	
181	4			potential	
182	4	Fisher Creek Rehabilitation	Improve fish access at a county culvert	proposed	\$30,000
183	5	Wetland Restoration Project	Stillaguamish Basin		
184	5	Snohomish Co PUD #1	Metering existing systems		\$150,000
185	5	Snohomish Co PUD #1	Conservation Program		\$150,000
186	5	Stillagaumish Feasibility Corps and Snohomish Co. Restoration Plan	Salmon, Trout , Water Quality Estuaries	Planned	
187	5			potential	
188	5		Design & Construct fish passage facility	proposed	\$100,000
189	6	North Whidbey Watershed Impl.			\$330,020
190	6	Penn Cove Park	Replace leaking water mains		
191	6	Anacortes Outfall Replacement			\$250,000
192	6	Anacortes WTP	Construct discharge system		\$2,000,000
193	6	City of Oak Harbor	Conservation Program		\$12,500
194	6	Cama Beach Ph 2, #96-124A	Develop for future recreational use.	planned	\$3,342,130
195	6	Ala Spit Beach Access #96-010A	8 acre land acquisition	planned	\$560,066
196	7		Construct comm water system		\$3,000,000
197	7	Snohomish Co-Erosion Control			\$267,341
198	7		Fish passage at rock cascade		\$65,000
199	7		Cherry Valley Unite to improve fish & wildlife habitat		\$1,400,000
200	7	Snohomish Co. Stormwater Pond			\$255,000
201	7	Tortorice Pond Fishway	Construct fishway	proposed	\$6,000
202	7	Red Apple Creek Restoration	Improve fish passage at 5 culverts	proposed	\$25,000
203	7	Stossel Creek Fish Passage	Repair & construct fishways	proposed	\$10,000
204	7	Barr Creek Tributary Habitat Enhancement	Restore habitat	proposed	\$10,500
205	7		Fishway upgrade	proposed	

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
206	7		Design & construct fish passage	proposed	\$880,000
207	8	City of Renton	Steel Pipe Replacement Prog		\$300,000
208	8	Seattle Roadway Stormwater BMP			\$495,000
209	8	King Co-Cottage Lake Watershed Improvement			\$250,000
210	8	City of Auburn	Leak Detection		\$10,000/year
211	8	KCWD #90	Water Main Replacement Prog		\$4,901,000
212	8	City of Snoqualmie	98 Leak Detect Srvy & 99 Water Audit		\$45,000
213	8	Seattle Distch to Swale Conversion			\$499,500
214	8	Enumclaw	Water Main Replacement Prog		\$2,400,000
215	8	Kent-Stormwater Detention			\$4,000,000
216	8	Covington W.D.	Timberlane Main Replacement		\$3,000,000
217	8	King Co Farm Plan/BMP WR Monit			\$225,000
218	8	Tukwila Vactor Waste Station			\$1,400,000
219	8	King Co Dept of Metro Svc	Proposed water reuse areas		\$300,000
220	8	Tukwila Pond Water Quality Plan			\$120,000
221	8	City of Auburn	Ripe Replacement		\$350,000?year
222	8	West Tiger Mtn NRCA #96-031A	Purchase of 77 acres in King Co	planned	\$950,000
223	8	Steele Creek Culvert Replacement	Culvert replacement	proposed	\$200,000
224	8	Rutherford Creek Culvert Replacement	Culvert replacement	proposed	\$20,000
225	9	Coastal America Estuarine Restoration sites	Salmonid, vegetation Estuary, Urban Restoration	ongoing	
226	9	Turning Basin 1135	Salmon, Trout Estuary, Vegetation	proposed	
227	9	Howard Hanson 1135	Salmon, Waterfowl	proposed	
228	9	Newaukum Creek Culvert replacement	Culvert replacement	proposed	\$20,000
229	10	City of Tacoma	Green River Headworks Project		\$13,000,000
230	10	Ohop Farm Wetland Enhance	shallow water wetland created, trees shrubs planted	Proposed	
231	10	Samamish Slough 1135 Completed Restoration Project	Stream morphology salmon and vegetation	completed	
232	10	Tacoma Narrows #96-055A	36 acre land acquisition	planned	\$2,217,000
233	10	Thorton Creek 1135	Salmon Trout	proposed	

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
234	10	Sammamish weir 1135	Salmon Water control structure	proposed	
235	11	Nisqually erosion & hab analysis			\$80,000
236	11	Oregon White Oak Restoration	Invasive Plant removal	Completed	\$30,641
237	11	Ft Lewis Ponderosa Pine Restoration	Invasive Plant removal	Completed	\$28,474
238	11	East Creek Instream and Bank Stabilization	Instream improvements, bank stabilization	Completed	\$10,000
239	11	Little Red Salmon Creek	Culvert replacement	completed	\$30,000
240	12	Mud Lake	Mud Lake Sewage Problem		\$50,000
241	12	SPSWA Wetland Enhancement	3 ponds excavated, 10,000 trees & shrubs planted	Completed	
242	12	SPSWA Wetland Enhancement	1 pond excavated, water control device, trees planted	Proposed	
243	13	Squaxin Is.-Deschutes Basin Water Quality			\$161,296
244	13	Squaxin Is. Stream temp monitoring			\$108,640
245	13	Thurston Co/Horse Farms BMP			\$195,000
246	13	City of Yelm	Wastewater Reuse		\$12,303,000
247	13	Lacey Chambers Lake St. Facility			\$1,650,000
248	13	Woodard Bay NRCA #96-030A	Acreage & shoreling acquisition	planned	\$1,200,000
249	13	Deschutes River Oxbow	Culvert replacement	proposed	
250	13		Good candidate for restoration	proposed	
251	14	City of Shelton	Meter replacement program		\$108,000
252	14	Reyger	Riparian Planting, Bank Stabilization, Fencing		
253	14	City of Shelton	Conservation Rates (changeover)		\$7,500
254	14	Boelk	Riparian Planting, Bank Stabilization, Fencing		
255	14	Casto	Riparian Planting, Bank Stabilization, Fencing		
256	14	Schneider Creek Riparian Planting	Riparian Planting	Completed	\$7,000
257	14	Knight	Riparian Planting, Bank Stabilization, Fencing	completed	
258	14	Cunningham	Riparian Planting, Bank Stabilization, Fencing	completed	

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
259	14	Theler	Riparian Planting, Bank Stabilization, Fencing	completed	
260	14	Fuller	Artificial Barrier Removal, LWD Placement	completed	
261	14	Villines	Riparian Planting, Bank Stabilization, Fencing	completed	
262	14	Johnson	Riparian Planting, Bank Stabilization, Fencing	completed	
263	14	Beckstead	Riparian Planting, Bank Stabilization, Fencing	completed	
264	14	Mason County	Instream, Passage, Road Abandonment, Road Obliteration	completed	
265	14	Jernigan	Instream habitat improvement	completed	
266	14	Squaxin Tribe	Riparian Planting, Bank Stabilization, Fencing	completed	
267	14	Smith	Other	completed	
268	14	Lidington	Riparian Planting, Bank Stabilization, Fencing	completed	
269	14	Johnson	Riparian Planting, Bank Stabilization, Fencing	completed	
270	14	Jacobsen	Riparian Planting, Bank Stabilization, Fencing	completed	
271	14	Squaxin Tribe, Hartley, Okonek	Wildlife Features (snag development, nursery logs)	completed	
272	14	Hartley, Okonek	Riparian Planting, Bank Stabilization, Fencing	completed	
273	14	Simpson Timber	Riparian Planting, Bank Stabilization, Fencing	completed	
274	14	Adams	Riparian Planting, Bank Stabilization, Fencing	completed	
275	14	Jacobsen	Riparian Planting, Bank Stabilization, Fencing	completed	
276	14	McDonald	Riparian Planting, Bank Stabilization, Fencing	completed	
277	14	Mason County	Artificial Barrier Removal, LWD Placement	completed	
278	14	Holiday Valley Creek Culvert Replacement	Culvert replacement	ongoing	\$20,000

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ENTRY #	WRIA	Project Title	Description	Status	Cost
279	15	Bainbridge Is. Watershed Ag. Implementation			\$95,065
280	15	Bainbridge Is. imp. watershed action plan			\$126,667
281	15	Sinclair Inlet watershed plan implementation			\$333,333
282	15	Key	Riparian Planting, Bank Stabilization, Fencing		
283	15		Fish passage, dam removal, install log controls		\$20,000
284	15	City of Bremerton	McKenna Falls trans line replace		\$1,600,000
285	15	Huson Creek Fishway	Repair culvert	completed	
286	15	Davis	Riparian Planting, Bank Stabilization, Fencing	completed	
287	15	Byerly	Riparian Planting, Bank Stabilization, Fencing	completed	
288	15	Littlefield, Bowman	Riparian Planting, Bank Stabilization, Fencing	completed	
289	15	Allen	Side-channel creation, Remeander of stream channel	completed	
290	15	Huson	Side-channel creation, Remeander of stream channel	completed	
291	15	Bowman	Riparian Planting, Bank Stabilization, Fencing	completed	
292	15	Littlefield, Bowman	Wildlife Features (snag development, nursery logs)	completed	
293	15	Huson	Riparian Planting, Bank Stabilization, Fencing	completed	
294	15	Matkins	Riparian Planting, Bank Stabilization, Fencing	completed	
295	15	Littlefield	Riparian Planting, Bank Stabilization, Fencing	completed	
296	15	Anderson, Lane	Riparian Planting, Bank Stabilization, Fencing	completed	
297	15	Allen	Instream habitat improvement	completed	
298	15	Page	Riparian Planting, Bank Stabilization, Fencing	completed	
299	15	E. Hood Canal Riparian #96-095A	500 acres land acquisition in Kitsap Co	planned	\$1,000,000
300	15	Puget Trough NAPs #96-127A	Land acquisition	planned	\$800,000
301	15	Central Kitsap Riparian Corridor #96-096A	Approx. 100 acre acquisition	planned	\$1,000,000

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ENTRY #	WRIA	Project Title	Description	Status	Cost
302	15	Gazzam Lake #96-281A	75 acre land acquisition	planned	\$1,061,325
303	15	Hansville Greenway Trail #96-115A	Land acquisition	planned	\$813,500
304	15	Union River Wetlands #96-242A	Acquisition of site important to shellfish, trumpeter swan, etc	planned	\$245,000
305	15	Gazzam Lake #96-003A	243 acre acquisition in Kitsap Co	planned	\$3,438,675
306	15	Stavis Creek	Excavation of sediments, LWD placement	proposed	
307	16	Skokomish River Basin Project	Road work on Simpson Land (decommission & storm proofing)		
308	16	Bourgault Cr. catchment	Increase overall flow in channel & pond		
309	16	Skokomish River Basin Project	Riparian fencing & enhancement in lower Skokomish		
310	16	Skokomish River Basin Project	Estuarine vegetation enhancement project		
311	16	Haven Lake Rd Decommissioning & Restoration	Road Decommissioning, Road Drainage Improvement, Planting, Slide Stabilization	Completed	\$30,000
312	16	Ragan Creek Instream and Bank Stabilization	LWD Placement, Instream habitat improvement, Wild Life Features, Riparian Planting	Completed	\$30,500
313	16	Project #7 Bioengineering	Road Decommissioning, Road Drainage Improvement, Planting, Slide Stabilization	Completed	\$73,644
314	16	Champagne, Sigman, Dolan	Riparian Planting, Bank Stabilization, Fencing	completed	
315	16	Lower Skokomish River Bioengineering	Left bank restoration	completed	
316	16	Skokomish River Mile 5 Bioengineering	Bank restoration	completed	
317	16	Doak	Riparian Planting, Bank Stabilization, Fencing	completed	
318	16	Robbins	Artificial Barrier Removal, LWD Placement	completed	
319	16	Endicott	Riparian Planting, Bank Stabilization, Fencing	completed	
320	16	Endicott	Fish Raceway or Tank	completed	
321	16	Hunter	Stream Typing, Culvert Upgrades, Culvert Removal	completed	
322	16	USFS	Road Decommissioning, Road Drainage Improvement	completed	
323	16	Biser	Wildlife Features (snag development, nursery logs)	completed	

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
324	16	Simpson Timber	Road Decommissioning, Road Drainage Improvement	completed	
325	16	USFS	Road Decommissioning, Road Drainage Improvement	completed	
326	16	USFS	Other	completed	
327	16	USFS	Other	completed	
328	16	Kirkland Creek Tributary Retoration	LWD Placement	completed	
329	16	Endicott	Fish Pond Management	completed	
330	16	Hunter	Riparian Planting, Bank Stabilization, Fencing	completed	
331	16	Simpson Timber	Road Decommissioning, Road Drainage Improvement	completed	
332	16	Skokomish Tribe	Riparian Planting, Bank Stabilization, Fencing	completed	
333	16	Skokomish Tribe	Riparian Planting, Bank Stabilization, Fencing	completed	
334	16	Biser	Riparian Planting, Bank Stabilization, Fencing	completed	
335	16	USFS	Road Decommissioning, Road Drainage Improvement	completed	
336	16	USFS	Road Decommissioning, Road Drainage Improvement	completed	
337	16	USFS	Road Decommissioning, Road Drainage Improvement	completed	
338	16	USFS	Road Decommissioning, Road Drainage Improvement	completed	
339	16	USFS	Road Decommissioning, Road Drainage Improvement	completed	
340	16	Simpson Timber	Road Decommissioning, Road Drainage Improvement	completed	
341	16	Simpson Timber	Road Decommissioning, Road Drainage Improvement	completed	
342	16	Simpson Timber	Road Decommissioning, Road Drainage Improvement	completed	
343	16	Simpson Timber	Road Decommissioning, Road Drainage Improvement	completed	

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
344	16	Simpson Timber	Road Decommissioning, Road Drainage Improvement	completed	
345	16	Duckabush Wetlands #96-284A	65 acre land acquisition	planned	\$67,000
346	16		Fish passage	proposed	\$30,000
347	16	Kirkland Creek Channel Restoration	Rechannel	proposed	
348	16	Cemetary Creek	Passage	proposed	
349	17	Estuary restoration	Stream re-alignment & estuary restoration	Proposed	\$2,000
350	17	Estuary restoration	Stream re-alignment & estuary restoration	Proposed	\$100
351	17	Salmon Creek Summer Chum		Completed	\$5,055
352	17	Holt Brown Habitat		Completed	\$3,854
353	17	Chimacum Diversion		Completed	\$1,320
354	17	Tarboo Creek Pond		Completed	\$1,046
355	17	Shaw Farm Habitat		Completed	\$1,810
356	17	Eel Grass Plantings		Completed	\$516
357	17	Salmon Creek Chum		Completed	\$1,044
358	17	Riparian Revegetation		Completed	\$188
359	17	Salmon Creek Summer Chum		Completed	\$1,230
360	17	Phinzy Project		Completed	\$741
361	17	Little Goose Creek Habitat		Completed	\$500
362	17	Salmon Creek Summer Chum Netpen		Completed	\$810
363	17	Snow Creek Restoration		Completed	\$5,000
364	17	Riparian Revegetation		Completed	\$3,415
365	17	Chimacum Habitat		Completed	\$1,009
366	17	Salmon Creek Summer Chum		Completed	\$3,319
367	17	Chimacum Creek #3		Completed	\$166
368	17	Naylor Creek Habitat		Completed	\$1,100
369	17	Salmon Creek Summer Chum		Completed	\$1,700
370	17	Chimacum Coho		Completed	\$595
371	17	Swansonville Fish Passage		Completed	\$2,000
372	17	Roger Short Habitat		Completed	\$1,652
373	17	Holt Brown Habitat	Fencing, Riparian Planting, LWD and rock placement, Invasive plant removal, Instream habitat improvement	Completed	\$1,383

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
374	17	Chimacum Creek #3	Instream habitat improvement, Gravel cleaning, LWD placement	Completed	\$166
375	17	Tarboo Creek Pond	Side-channel creation	Completed	\$1,046
376	17	Little Goose Creek Habitat	Passage, Instream habitat improvement,	Completed	\$3,000
377	17	Naylor Creek Habitat	Instream habitat improvement, passage	Completed	\$1,100
378	17	Chimacum Diversion	Instream habitat improvement, Gravel trap	Completed	\$1,850
379	17	Shaw Farm Habitat	Instream habitat improvement, Fencing, Bank stabilization	Completed	\$6,710
380	17	Salmon Creek Summer Chum	Broodstock Restoration Project	Completed	\$3,319
381	17	Salmon Creek Summer Chum Netpen	Broodstock Restoration Project	Completed	\$810
382	17	Salmon Creek Summer Chum	Broodstock Restoration Project	Completed	\$1,200
383	17	Salmon Creek Summer Chum	Broodstock Restoration Project	Completed	\$1,044
384	17	Salmon Creek Summer Chum	Broodstock Restoration Project	Completed	\$1,700
385	17	Salmon Creek Summer Chum	Broodstock Restoration Project	Completed	\$5,055
386	17	Chimacum Habitat	Riparian Planting, Fencing, Gravel Cleaning	Completed	\$1,187
387	17	Putansuu Habitat	Passage, Riparian planting, Fencing, Off channel watering	Completed	\$5,410
388	17	Holt Brown Habitat	Instream habitat improvement, Fencing, Off channel watering, Bank stabilization, Riparian planting	Completed	\$4,194
389	17	Riparian Revegetation	Instream habitat improvement, Riparian planting	Completed	\$1,266
390	17	Chimacum Coho	Stock recovery	Completed	\$6,168
391	17	94 Stream Fencing		Completed	\$3,558
392	17	Laase Bridge	Instream habitat improvement	Completed	\$13,010
393	17	Eel Grass Plantings	Estuarine improvement	Completed	\$1,841
394	17	Snow Creek Restoration	Passage, Instream habitat improvement, LWD placement, Bank stabilization, Riparian Planting	Completed	\$171,800
395	17	Roger Short Habitat	Side-channel creation, LWD placement, Instream habitat improvement, Riparian planting	Completed	\$8,260
396	17	Riparian Revegetation	Riparian planting	Completed	\$3,415
397	17	Chimacum Coho		Completed	\$6,168

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRI	Project Title	Description	Status	Cost
398	17	Holt Brown Habitat		Completed	\$1,383
399	17	Phinzy Project	Fencing, Riparian revegetation, Bank stabilization	Completed	\$7,429
400	17	Chimacum Coho	Stock recovery	Completed	\$595
401	17	Swansonville Fish Passage	Passage, Instream habitat improvement, LWD placement, Fencing, Culvert upgrades, off channel watering,	Completed	\$56,580
402	17	Put aansuu Creek Rehabilitation	Passage	Ongoing	\$3,000
403	17	Salmon Creek Restoration	Fencing, Instream habitat improvement	Ongoing	\$5,000
404	17	Salmon Creek Summer Chum	Broodstock Restoration Project	Ongoing	\$5,915
405	17	Put aansuu Creek Rehabilitation		Ongoing	\$3,000
406	17	Salmon Creek Summer Chum		Ongoing	\$5,915
407	17	Salmon Creek Restoration		Planned	\$5,000
408	17	Stingle Fencing	Fencing, Instream habitat improvement	Planned	\$500
409	17	Christian Habitat		Planned	\$8,100
410	17	Snow Creek Fencing		Planned	\$863
411	17	Schmidt Fencing	Fencing, Instream habitat improvement	Planned	\$250
412	17	George Brown Fencing	Fencing, Instream habitat improvement	Planned	\$3,000
413	17	Snow Creek Fencing	Fencing, Instream habitat improvement	Planned	\$863
414	17	Christian Habitat	Side-channel creation, instream habitat improvement, fencing, Riparian planting, remeander of stream channel	Planned	\$8,100
415	17	Chimacum Summer Chum	Broodstock Restoration Project	Planned	\$3,500
416	17	Brown Fencing	Fencing, Instream habitat improvement	Planned	\$1,400
417	17	Schmidt Fencing		Planned	\$250
418	17	Shaw Farm Riparian	Fencing, Instream habitat improvement	Planned	\$190
419	17	Stingle Fencing		Planned	\$500
420	17	Shaw Farm Riparian		Planned	\$190
421	17	Brown Fencing		Proposed	
422	17	Chimacum Summer Chum		Proposed	
423	17	George Brown Fencing		Proposed	
424	17	Big Quilcene River Gravel Trap Maintenance	Gravel removal from traps	completed	
425	17	Hiddendale Bank Stabilization	Bank stabilization	completed	

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
426	17	Big Quilcene Flood Control & Habitat Rest.	LWD Placement, Bank stabilization, revegetation	completed	
427	17	Chimacum Creek Sediment Study	Determine cause & solutions to sediment problem	completed	
428	17		Fence, reveg, reestab. eelgrass	completed	
429	17	Jakeway Creek Restoration	Bank stabilization	completed	
430	17		Fence, reveg, LWD, canary grass removal	completed	
431	17	Olson/Bishop Coho Habitat Restoration	Culvert replacement/place log weirs	completed	
432	17		Landslide reparation	completed	
433	17		Fixed blocked culvert	completed	
434	17		Summer Chum recovery plan	completed	
435	17		Improve tidegate at Grays Marsh	completed	
436	17	Gastman/Andrews Creek Channel Maint	Canary Grass removal, open stream channel	completed	
437	17		Rechannel stream w/clay, pools, LWD	completed	
438	17	Snow Creek Flood control & Hab. Rest.	Removal of sediment	completed	
439	17		Lower culverts to pond	ongoing	
440	17		Continue summer chum recovery, USFS Wtrshd Anal	ongoing	
441	17		LWD, weir, gravel mgmt, canary grass	ongoing	
442	17	Riparian Revegetation	Riparian Revegetation	ongoing	
443	17	Christian Coho Habitat Restoration	LWD Placement, revegetation	ongoing	
444	17	Camp Discovery Creek restoration	Culvert upgrades	ongoing	
445	17	Chimacum Creek Estuary	Estuarine improvement	ongoing	
446	17		Stabilize erosion	ongoing	
447	17	Salmon Creek Summer Chum Recovery	Recovery of summer chum	ongoing	
448	17		More riparian veg, more LWD	proposed	
449	17		Scour logs, riparian veg, more LWD, reintroduce Chum	proposed	
450	17		Overwinter pond, add LWD	proposed	
451	17		Purchase watershed for flood mgmt	proposed	
452	17		Fix mouth of Sass Ck	proposed	
453	17		Improve spawning habitat, place LWD, pools	proposed	

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
454	17	Shaw Habitat Project	Place rootwads & large woody debris	proposed	\$30,000
455	17	Christian Habitat Project	Fencing & planting both sides of the creek	proposed	\$25,000
456	17		Look at estuary work	proposed	
457	17	Tarboo Creek Habitat Project	Placement of weirs & rootwads	proposed	\$15,000
458	18	Gray Wolf Acclimation Ponds	Acclimation pond construction for chinook program	Completed	\$31
459	18	Chinook Tagging Project	Tag chinook from captive broodstock program	Completed	\$75
460	18	Irrigation Screens - CCD	Replace fish screens at irrigation intake	Completed	\$376
461	18	Towne Road Siphon, etc.	water conservation efficiency	Completed	\$194
462	18	Enforcement Emphasis	Special enforcement detail to protect chinook adult	Ongoing	\$40
463	18	LWD U/S Railroad Bridge	DRS (Debris Retention Structure) LWD Placement	Planned	\$141
464	18	LWD Moore	DRS, LWD Placement	Planned	\$109
465	18	Fox Hill Siphon, etc.	water conservation efficiency	Planned	\$135
466	18	LWD Downstream RR bridge	DRS, LWD placement	Planned	\$141
467	18	LWD REED	DRS, LWD placement	Planned	\$141
468	18	LWD WDFW Dung. Hatchery	DRS, LWD placement	Planned	\$141
469	18	LWD Placement	LWD Placement at additional sites, lower 10 miles	Proposed	\$500
470	18	Flood plain restoration	Abate constrictions to restore proper riparian function	Proposed	\$2,500
471	18	Dungeness R Wtr Res Forecast Sys Proj	Install Dung. Rvr. forecasting system	Proposed	\$50
472	18	City of Sequim	Wastewater Reuse		\$8,400,000
473	18	Removal of Elwha Dam			
474	18	Dungeness-Quilcene Water Resources Plan	Instream habitat projects		\$400,000
475	18	Dugeness watershed WQ protection			\$218,239
476	18	Elwha R Ecosys. & Fish. Restoration Act	Off-chanel spawning & rearing habitat development		\$145,000
477	18	Dungeness-Quilcene Water Resources Plan	Flood plan restoration		\$1,500,000
478	18	Dungeness Basin Irrig Sys Improv			\$2,500,000
479	18	Jimmy-Come-Lately	Estuarine improvement, flood control	Proposed	\$900,000

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
480	18	Lower Elwha Off-Channel Rearing	Off-channel rearing pond development	Boco complete	
481	18	Bohn Habitat	Instream habitat improvement, Invasive plant removal, Side-channel creation, Riparian planting, spawning gravel placement	Completed	\$3,800
482	18	Wilson Habitat	Instream habitat improvement, Invasive plant removal, Side-channel creation, Riparian planting, spawning gravel placement	Completed	\$4,750
483	18	Senf Habitat	Instream habitat improvement, Invasive plant removal, Side-channel creation, Riparian planting, spawning gravel placement	Completed	\$1,300
484	18	Dungeness Hatchery		Completed	\$6,655
485	18	Balardi Habitat	Instream habitat improvement, Invasive plant removal, Side-channel creation, Riparian planting, spawning gravel placement	Completed	\$1,400
486	18	V.Pettit Habitat		Completed	\$4,000
487	18	Cooper Creek Habitat		Completed	\$1,200
488	18	Laase Bridge		Completed	\$3,250
489	18	Wilson Habitat		Completed	\$4,750
490	18	Cole Habitat	Instream habitat improvement, Invasive plant removal, Side-channel creation, Riparian planting, spawning gravel placement	Completed	\$1,299
491	18	Carrie Blake Park		Completed	\$4,730
492	18	Cole Habitat		Completed	\$1,299
493	18	Balardi Habitat		Completed	\$1,400
494	18	Senf Habitat		Completed	\$1,300
495	18	Cole Gravel Placement	Instream habitat improvement	Completed	\$863
496	18	Bohn Habitat		Completed	\$3,800
497	18	Carrie Blake Park	Instream habitat improvement, LWD placement, channel creation, Riparian planting, Bank stabilization	Completed	\$4,730
498	18	Greywolf Acclimation Pond	Side-channel creation, Trail construction	Completed	\$2,752

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
499	18	PA School/Habitat		Completed	\$2,946
500	18	Matriotti Habitat		Completed	\$1,774
501	18	V.Pettit Habitat	Instream habitat improvement, Invasive plant removal, Side-channel creation, Riparian planting, spawning gravel placement	Completed	\$4,000
502	18	Cooper Creek Habitat	Instream habitat improvement, Riparian plantings, channel creation, LWD placement	Completed	\$1,200
503	18	Riparian Revegetation	Instream habitat improvement, Riparian planting	Completed	\$188
504	18	Cooper Creek Coho	Instream habitat improvement, Side-channel creation	Completed	\$5,000
505	18	Dungeness Habitat		Completed	\$4,100
506	18	Whiskey Creek Habitat		Completed	\$3,520
507	18	Cooper Creek Coho		Completed	\$5,000
508	18	Matriotti Habitat	Instream habitat improvement, Riparian planting	Completed	\$48,774
509	18	Dungeness Carcass Distribution	Riparian enhancement	Completed	\$0
510	18	Riparian Revegetation		Completed	\$1,266
511	18	Cole Gravel Placement		Completed	\$863
512	18	Greywolf Acclimation Pond		Completed	\$2,752
513	18	PA School/Habitat	Riparian planting, Instream habitat improvement	Completed	\$5,615
514	18	Whiskey Creek #3		Completed	\$885
515	18	Hurd Creek Restoration Project	LWD Placement, Remeander of stream channel	Completed	\$30,000
516	18	Whiskey Creek Habitat	LWD placement, Instream habitat improvement	Completed	\$3,520
517	18	Dungeness Carcass Distribution		Completed	\$0
518	18	Whiskey Creek #3	Instream habitat improvement, LWD placement	Completed	\$1,885
519	18	Dungeness Habitat	Side channel creation	Completed	\$4,100
520	18	Lotzgesell Habitat	Instream habitat improvement, Spawning gravel and boulder placement,	Ongoing	\$3,500

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
521	18	Bell Creek Restoration Project	Fencing, , Riparian planting, LWD placement	Ongoing	\$15,000
522	18	Lotzgesell Habitat		Ongoing	\$3,500
523	18	Matriotti Creek Model	Riparian Planting, Fencing,Off-Channel Watering,	Ongoing,	\$800,000
524	18		Passage, Instream habitat improvement	Proposed	
525	18		Chinook recovery, bank stabiliz.Coho eval.	completed	
526	18	Canyon Creek Slide Stabilization	Slide stabilization	completed	
527	18		Bank stabilization, pools w/LWD	completed	
528	18		LWD, pools, gravel, reveg w/smolt trap, restore, improve pools, etc	completed	
529	18	Cooper Creek Chum Project	Recovery of chum	completed	
530	18		Flood protect, Hab restor in lower reaches	completed	
531	18	Greywolf Acclim Pond for Dungeness Chinook Captive Broodstock	Dev. & monitor site, feed fish & participate in captive brood program	ongoing	
532	18	Salt Creek	Develop off-channel wintering pond	ongoing	
533	18		Off-channel rearing for coho, stlhead, chum	ongoing	
534	18	Dungeness Carcass Distribution	Provide nutrients to systems	ongoing	
535	18	Meadowbrook Creek Smolt Trap	LWD Placement, fencing, add gravel	ongoing	
536	18	Matriotti Creek Habitat Restoration	LWD Placement, create meander stream,add spawn gravel	ongoing	
537	18	Morse Creek	Restore estuary & river mouth	ongoing	
538	18		Off channel spawning & rearing habitat	proposed	\$145,000
539	18		Instream Habitat projects	proposed	\$400,000
540	18	Dungeness Overwintering Project	Create overwintering pools	proposed	
541	18		Flood plain restoration	proposed	\$1,500,000
542	18	Dungeness River Restoration		proposed	
543	19		LWD placement in lower river to help control sedimentation		\$650,000
545	19				
547	19	Salt Creek Restoration Project	LWD Placement, Remeander of stream channel	Proposed	\$400,000

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
549	19	Pysht River Restoration Project	Bank Stabilization, Instream habitat improvement	Proposed	\$4,500,000
551	19	Deep Creek Restoration Project	Bank Stabilization, Instream habitat improvement	Ongoing	\$3,000,000
553	19	Louie Lee Creek Restoration	Remeander of stream, Instream habitat improvement, Fencing, Riparian planting	Planned	\$15,000
555	19	Louie Lee Creek Restoration		Proposed	
557	19		Instream habitat improvement	Proposed	
559	19		OffchannelPnds.clvtreplcmntatReedCrk	completed	
561	19		Added LWD, off-channel ponds, fencing, rip. reveg	completed	
563	19	Whiskey Creek Chum RSI	Habitat restoration	completed	
565	19	Deep Creek	LWD place.create pools & off-channel rear, bank stabilization	completed	
567	19	Little Hoko River Habitat Restoration	Habitat restoration	completed	
569	19	South Fork Pysht Habitat Restoration	Stream restoration	completed	
571	19		OffchannelPnds:LWDplcmnt;	completed	
573	19	Hoko River Riparian Restoration	Riparian Restoration	completed	
575	19	Clallam River Riparian Restoration	Riparian Restoration	ongoing	
577	19	Hoko River Chum RSI	Increase nutrient base	ongoing	
579	19	Falls Creek	Freshwater rearing site	planning	
581	19	Clallam River Overwintering Habitat Project	Overwintering Habitat	planning	
583	19		Possible overwintering ponds	proposed	
585	19		Rebuild chum & chinook	proposed	
587	19		Priority for restoration	proposed	
589	19		overwinter Habitat at 6.1 or 6.2	proposed	
591	19	Pearson Creek Smolt Trap	Smolt trap	proposed	
593	19		LWD placement	proposed	\$650,000
595	19	Clallam River Overwintering Habitat Project	Construct fishway	proposed	\$55,000
597	19	West Twin River Log Jam Removal	Log jam removal	proposed	
599	19	Charlie Creek Bank Stabilization	Bank stabilization	proposed	
601	19		Rebuild chum & chinook	proposed	
602	19	Sadie Creek Juvenile Passage	Juvenile fish passage	proposed	

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
603	20		Habitat improvement		
604	20		Backwater Pond		
605	20		Groundwater channel		\$5,000
606	20		Water diversion/culvert removal		
607	20	City of Port Angeles	Leak Detection Program		\$90,000
608	20	City of Port Angeles	Water main replacement		\$750,000
609	20		Flood damage repair		\$36,000
610	20		Backwater pools		\$30,000
611	20		Fishway upgrade		
612	20		Offchannel enhanc.	completed	
613	20		Spawningrvls in Lake Pleasant, offchannel enhanc.	completed	
614	20		Offchannel enhanc.	completed	
615	20		Offchannel enhanc.	completed	
616	20		Offchannel enhanc.	completed	
617	20	Tassel Creek Culvert Replacement	Culvert Replacement	ongoing	
618	20	Snider Creek Overwintering Ponds	Restore overwintering site	ongoing	
619	20	Forks High School Spring Chinook Rearing Program	Incubate & rear SolDuc summer chinook	ongoing	
620	20	Borde Springs Coho Enhancement	Broodstocking coho	ongoing	
621	20	Snider Creek Steehead Rearing Pond	Operate & maintain rearing pond	ongoing	
622	20	NF Calawah Culvert Replacement	Culvert Replacement	ongoing	
623	20	Washington Harbor #96-261A	700 acres land acquisition in Clallam Co	planned	\$3,500,000
624	20	Boge Pit Habitat Restoration	Increase spawning habitat	proposed	
625	20		Combined projects in Willapa area	proposed	\$1,400,000
626	20	Goodman Creek Log Jam Removal	Log jam removal	proposed	
627	20		Fishway rebuild	proposed	\$30,000
628	21	City of Port Townsend	Leak detection program		\$14,000
629	21	City of Port Townsend	Replace service meters		\$120,000
630	21	City of Port Townsend	Main replacement program		\$20,000
631	21	Ziegler Creek Large Woody Debris Placement	LWD Placement, Instream habitat improvement	Completed	\$1,000

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRI	Project Title	Description	Status	Cost
632	21	Project 12 Road Decommissioning (USFS 2160.100)	Road Decommissioning, Road Drainage Improvement,Culvert Removal, Slide Stabilization	Completed	\$157,906
633	21	Joe Creek LWD Placement & Fish Blockage Removal	LWD Placement, instream passage, instream habitat improvement	Completed	\$70,000
634	21	Quinault River Instream & Bank Stabilization	LWD Placement, Riparian Planting, Instream habitat improvement	Completed	\$12,000
635	21	Matheny Rd Decommission (USFS 2160.200,080,086)	Road Decommissioning, Road Drainage Improvement,Culvert Removal, Slide Stabilization	Completed	\$314,116
636	21	Upper Clearwater Habitat Enhancement	Habitat enhancement	completed	
637	22	City of Aberdeen	Reservoir rehab		\$3,984,000
638	22	Hunter	Riparian Planting, Bank Stabilization, Fencing		
639	22	City of Cosmopolis	Pipe replacement & leak test		\$190,000
640	22	City of Aberdeen	Service meters		\$336,000
641	22	Aberdeen Settlement Ponds			\$100,000
642	22	City of Aberdeen	Leak repair		\$25,000
643	22	David Black Riparian Fencing	Riparian Fencing	Completed	\$12,000
644	22	Environmental Survey (Stream Typing)	Stream Typing	Completed	\$16,000
645	22	Gary Bowers Riparian Fencing	Riparian Fencing	Completed	\$1,000
646	22	Unnamed Trib. to Wynoochee R.: Log Weir Placement	LWD Placement, Instream habitat improvement,Wild Life Features	Completed	\$2,000
647	22	Kolmans Pond Decommissioned Gravel Pit	LWD Placement, Riparian Planting, Instream habitat improvement	Completed	\$70,000
648	22	Cedar Creek Erosion Control	Riparian Planting, Bank Stabilization,instream habitat improvements	Completed	\$4,000
649	22	Buzz Peters' Unnamed Brood Stock Stream	Instream habitat improvements.	Completed	\$8,000
650	22	Mrs. Caroline Mohny (Mohny Creek Restoration	Riparian Planting, invasive plant removal	Completed	\$10,000
651	22	Stormy Glicks Riparian Fencing	Riparian Fencing	Completed	\$12,000
652	22	Craig Gallington/Matt Roher Creek	Riparian Planting, Bank Stabilization,instream habitat improvements,invasive plant removal	Completed	\$13,000
653	22	Unnamed Tributary to Mohny Creek (L. Bridges)	Riparian Planting, invasive plant removal	Completed	\$3,000

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
654	22	Tree Pruning Project	Tree Pruning (Wildlife Habitat features)	Completed	\$8,000
655	22	Curt Kingmans Fencing	Fencing	Completed	\$12,000
656	22	Rock Creek Habitat Enhancement/ Rd. Decom.	Riparian Planting, road abandonment	Completed	\$15,000
657	22	West & Middle Elk River Spawning Pad & Structures	LWD Placement, Instream habitat improvement, Wild Life Features	Completed	\$12,000
658	22	Don Susak Fencing & Restoration	Riparian Planting, Fencing, Culvert upgraded, instream habitat improvements.	Completed	\$13,000
659	22	Big Creek Instream & Riparian Planting	LWD Placement, Riparian Planting	Completed	\$39,000
660	22	Lagergrens Bank Stabilization & Riparian Planting	Riparian Planting	Completed	\$1,000
661	22	Marty Clarks Fence Repair	Riparian Fencing	Completed	\$12,000
662	22	Dorthy Estergreen Fencing & Planting	Riparian Planting, culvert upgraded, Fencing	Completed	\$14,000
663	22	Bill Goeres Riparian Fencing	Riparian Fencing	Completed	\$2,000
664	22	Troy Colley Riparian Fencing	Riparian Fencing	Completed	\$14,000
665	22	Cloquallum Creek Bank Stabilization	Riparian Planting	Completed	\$1,000
666	22	Lytle Creek Large Woody Debris Placement	LWD Placement	Completed	\$3,000
667	22	East Hoquiam River (Large Woody Debris)	LWD Placement	Completed	\$2,000
668	22	Richard Wicketts Riparian Planting & Stabilization	Riparian Planting, instream improvements, bank stabilization, LWD Placement	Completed	\$14,000
669	22	Bill Quigg Bank Stabilization & Riparian Planting	Riparian Planting, instream improvements, bank stabilization	Completed	\$38,000
670	22	De Aguiar bank stabilization, & Riparian Planting	Riparian Planting, bank stabilization	Completed	\$10,000
671	22	John Barnettts Fencing & Riparian Planting	Riparian Planting, Fencing	Completed	\$62,500
672	22	Gene Mansmith Riparian Fencing	Riparian Fencing	Completed	\$5,000
673	22	Brady Bridge Bank Stabilization	Riparian Planting	Completed	\$1,000
674	22	Dick Studer Riparian Fencing	Riparian Fencing	Completed	\$47,000
675	22	Rod Simonson Riparian Fencing	Riparian Fencing	Completed	\$9,000
676	22	Unnamed Tributary to the East Hoquiam River	Instream habitat improvement, instream passage, Riparian Planting	Completed	\$1,000
677	22	Hoppers Creek Planting & LWD Placement	LWD Placement, Riparian Planting	Completed	\$70,000
678	22	Al Falco & Colleen Webster Fencing & Planting	Riparian Planting & Fencing	Completed	\$12,500
679	22	Elton Schmitz fencing and Restoration	Riparian Planting, instream improvements, bank stabilization, Fencing	Completed	\$14,000
680	22	Lower Sylvia Creek Riparian Fencing	Riparian Fencing	Completed	\$14,000
681	22	Project Assessment	Assessing Overall Watershed Health	Completed	\$32,500

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
682	22	Montesano Watershed Riparian Planting	Riparian Planting	Completed	\$10,000
683	22	Fry Creek Spawning and Restoration	Riparian Planting, Culvert upgraded, instream habitat improvements.	Completed	\$18,000
684	22	Grant Fry Fencing & Restoration	Riparian Planting, Fencing, Culvert upgraded, instream habitat improvements.	Completed	\$13,000
685	22	Jim Keavers Riparian Fencing	Riparian Fencing	Completed	\$12,000
686	22	Akers Overwintering Ponds Culvert	Culvert Upgrade	Completed	\$1,000
687	22	Oldfields Over-wintering Pond Restoration	Instream habitat improvement, instream passage, Riparian Planting	Completed	\$8,000
688	22	Turner Bridge Riparian Planting	Riparian Planting	Completed	\$3,000
689	22	Bill Quigg Cottonwood Ranch Riparian Fencing	Riparian Fencing	Completed	\$60,000
690	22	Davis Creek Watershed	Planting, Bank Stab., Passage, Culvert upgrade, LWD placement, Rd. Abandon, Rd Drainage improvement	Completed	\$390,337
691	22	Model Watershed Project	Riparian Planting, Bank Stabilization, instream habitat improvements.	Ongoing	\$34,000
692	22	Dr. Dalton/Mohney Creek Restoration	Riparian Planting, instream habitat improvements, Fencing	Ongoing	\$17,000
693	22	Foss/Gleason Bridge Bank Stabilization	Instream improvements, bank stabilization, Riparian Planting	Ongoing	\$92,000
694	22	Long Live the Kings Spawning Channel	Riparian Planting, Bank Stabilization, Instream habitat improvements	Ongoing	\$12,000
695	22	Friends Landing Habitat Enhancement	Riparian Planting, instream habitat improvements, LWD Placement	Ongoing	\$10,000
696	22	Weyco/Brisco Off Channel Rearing Ponds	Riparian Planting, instream habitat improvements, LWD Placement, culvert removal	Ongoing	\$58,000
697	22	Daugherty	Riparian Planting, Bank Stabilization, Fencing	completed	
698	22	Dalton	Riparian Planting, Bank Stabilization, Fencing	completed	
699	22	Mohney	Instream habitat improvement	completed	
700	22	Bridges	Riparian Planting, Bank Stabilization, Fencing	completed	

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
701	22	Simpson Timber	Riparian Planting, Bank Stabilization, Fencing	completed	
702	22	Mohney, Fox, Chase, Howard	Riparian Planting, Bank Stabilization, Fencing	completed	
703	22	Dalton	Riparian Planting, Bank Stabilization, Fencing	completed	
704	22	Mohney	Riparian Planting, Bank Stabilization, Fencing	completed	
705	22		Fish passage, spawning grave improvement	proposed	\$50,000
706	22		Fish passage & spawning gravel improvement	proposed	\$50,000
707	22		Jack Pipe & Const. Channel	proposed	\$350,000
708	22		Fish passage	proposed	\$200,000
709	22	Wishkah River Off-Channel Pond	Build off-channel pond	proposed	\$25,000
710	22	Big Creek Fish Blockage Removal	Fish blockage removal	proposed	\$10,000
711	22	Wishka Tributary Fish Passage	Fish blockage removal & culvert replacement	proposed	\$3,000
712	23	Newman Lake Nonpoint Contro			\$230,168
713	23	Centralia Ultraviolet Disinfection			\$1,500,000
714	23	Allen Creek Corridor Improvement	Riparian Planting, Bank Stabilization, Fencing, LWD placement, Spawn Pad, Fencing	Completed	\$6,000
715	23	Linclon Creek Forks Riparian Improvement	Riparian Planting, Bank Stabilization, Fencing, Instream habitat improvment	Completed	\$25,000
716	23	Bloomsditch Habitat Restoration Project	Riparian Planting, instream habitat improvements, LWD Placement, Fencing, Bank Stabilization	Completed	\$15,000
717	23	Skookumchuck Riparian Restoration	Riparian Planting, invasive plant removal	Completed	\$15,000
718	23	Shannon Slough Restoration	Riparian Planting, invasive plant removal	Completed	\$8,000
719	23	Mill Creek Habitat Improvement	Riparian Planting, Bank Stabilization, Fencing	Completed	\$4,000
720	23	Hanson, Dilly Twig, and Bishop Rd.	Riparian Planting	Completed	\$2,000

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
721	23	Judy Gustafson Restoration	Riparian Planting, Bank Stabilization, instream habitat improvements	Completed	\$2,000
722	23	Stearns Creek Habitat Improvement	Riparian Planting, Bank Stabilization, Fencing	Completed	\$8,000
723	23	Leonard Bridge Bank Stabilization	Riparian Planting, Bank Stabilization, Instream habitat improvement	Completed	\$4,000
724	23	Luellen - McCormick & Rock Creek	Bank Stabilization	Completed	\$12,000
725	23	Beatty Creek Restoration	Riparian Planting, Instream habitat improvement, Fencing	Completed	\$6,000
726	23	Labree/Hamilton Bank Stabilization	Riparian Planting, Bank Stabilization, Instream habitat improvement	Completed	\$16,000
727	23	Hamilton Riparian Fencing	Riparian Fencing	Completed	\$31,000
728	23	Fagerness Bank Stabilization	Riparian Planting, bank Stabilization	Completed	\$9,000
729	23	Lewis County Riparian Planting	Riparian Planting	Completed	\$2,700
730	23	Hamptons Fencing and Riparian Planting	Riparian Planting & Fencing	Completed	\$21,500
731	23	Chehalis Headwaters Contract	Road Abandonment, Road Obliteration	Completed	\$11,430
732	23	Rice Road Instream and Bank Stabilization	Instream improvements, bank stabilization	Completed	\$12,000
733	23	Lucas Creek Rd Instream and Bank Stabilization	Instream improvements, bank stabilization	Completed	\$10,000
734	23	Galvin Bridge Bank Hole Stabilization	Riparian Planting, bank Stabilization	Completed	\$11,000
735	23	Tauscher Road Instream and Bank Stabilization	Instream improvements, bank stabilization	Completed	\$10,000
736	23	Chehalis Restoration Revegetation (two projects)	Riparian Planting	Completed	\$5,000
737	23	Skookumchuck Riparian Restoration	Riparian Planting, invasive plant removal	Completed	\$5,000
738	23	Skookumchuck Riparian Restoration	Riparian Planting, invasive plant removal	Completed	\$25,000
739	23	Dillenbaugh Creek Headwaters	Riparian Planting, Bank Stabilization, Fencing, LWD placement	Completed	\$12,000
740	23	Ron Knapp Fencing and Revegetation	Riparian Planting, Fencing, Culvert upgraded, instream habitat improvements	Completed	\$7,500
741	23	Wilsons Fencing and Revegetation	Riparian Planting, Fencing	Completed	\$17,000
742	23	Lincon Creek Headwaters Sediment Control	Road storm proofing, Road obliteration, Road Drainage Improvement	Ongoing	\$4,000
743	23	Mintons Fencing & Bank Stabilization	Riparian Fencing	Ongoing	\$4,000
744	23	Upper Chehalis River Off-Channel Pond	Build off-channel pond	proposed	\$10-15,000
745	23	Upper Chehalis River Off-Channel Pond	Insolation incubation capacities for multiple stock production	proposed	\$15,000

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRI	Project Title	Description	Status	Cost
746	24	City of South Bend	Reservoir Maintenance		\$50,000
747	24	Willapa Valley Water Dist	Leak repair/pipe replacement		\$311,000
748	24	City of South Bend	Meter replacement		\$90,400
749	24	City of South Bend	Leak repair/distrib. replace		\$300,000
750	24	Middle Nemah River Instream Structures	Instream habitat improvement,Wild Life Features	Completed	\$1,000
751	24	Vesta Bridge Bank Stabilization	Riparian Planting	Completed	\$1,000
752	24	Willapa Bay Habitat Project	Expanded spawning	proposed	\$35,000
753	24	North River Off-Channel Habitat Expansion	Expanded spawning & rearing habitat	proposed	\$25,000
754	26	City of Centalia	Pipeline replacement project		\$930,526
755	26	City of Centalia	New well		\$196,000
756	26	Lewis Co Water #3	Leak repair		\$15,000
757	26	Lewis Co Water #3	Main replacement		\$194,000
758	26	City of Chehalis	Pipeline replacement		\$848,000
759	26	Lewis Co Water #3	Meters		\$3,000
760	26	City of Mossyrock	Pipeline replacement		\$227,800
761	26	City of Centalia	Leakage survey		\$30,000
762	26	Town of Winlock	Pipe replacement/repair		\$100,000
763	26	City of Mossyrock	Leakage Detection		\$12,000
764	26	Monahan Creek Fish Passage	Replace culvert	proposed	\$25,000
765	27	City of Kalama	Industrial meters		\$50,000
766	27	Cedar Creek Fish Passage	Railroad culvert removal	proposed	\$35,000
767	28	City of Camas	Leakage survey		\$30,000
768	28	City of Camas	Pipeline replacement project		\$1,322,000
769	28	City of Washougal	Pipeline replacement project		\$995,350
770	28	Vancouver Serwer Inflow & Infiltration Elimination			\$92,016
771	28	Vancouver Oxbow Pond Expansion			\$85,000
772	28	City of Camas	Two new wells		\$981,000
773	28	City of Camas	Pressure reducing valve sta.		\$105,000

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
774	28	Clark Public Utilities	Leak repair/pipe replacement		\$2,000,000
775	29	Install Fish Passage at Condit Dam			
776	29	Skamania Co PUD	Pressure reducing valves		\$8,000
777	29	Skamania Co PUD	Meter replacement		\$58,000
778	29	Skamania Co PUD	Pipeline replacement		\$630,500
779	29	Skamania Co PUD	Leakage Detection/repair		\$34,000
780	29			potential	
781	30	Klick. W/A Mgmt Plan	Rd surface improv Culvert plcmnt for draing improv	Completed	\$5,000
782	30	Klick. W/A Mgmt Plan	Road surface improvement, Culvert placement	Completed	\$2,000
783	30	FEMA Flood Repairs	Culvert upgrade	Completed	\$500
784	30	Klick. W/A Mgmt Plan	Road surface improvement, Culvert placement	Completed	\$500
785	30	Klick. W/A Mgmt Plan	Fencing	Completed	\$30,000
786	30	Swale Creek	Enhance steelhead habitat/fencing, planting, & weirs	proposed	\$20,000
787	30	Chapman Creek Fencing	Place livestock exclusion fencing	proposed	\$8,000
788	31	John Day Dam	Pump station modifications		
789	32	Walla Walla Joint Project	Install intertie		\$107,000
790	32	City of Walla Walla	Upgrade oldest reclamation facility		\$31,000,000
791	32	Blalock Irrigation Dist #12	Install Service Meters		\$55,000
792	32	Walla Walla Reg. Airport	Test Well & upgrades		\$34,000
793	32	City of Walla Walla	Stream Enhancement		\$250,000
794	32	Walla Walla Reg. Airport	Water meters		\$40,000
795	32	Consolidated Water Dist #14	Install Service Meters		\$32,400
796	32	Walla Walla River Restoration Plan	riparian plantings, bank stabilization, sediment reduction, improved passage, reintroduction of salmon	ongoing	

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
797	32	Matching funds for Walla Walla Restoration project	passage improvements, bank stabilization, instream fish enhancement for salmonids, riparian improvement	proposed	
798	32	Locally adapted broodstock development	develop local broodstock for steelhead enhancement efforts to restore steelhead populations consistent with WSP and ESA	proposed	
799	32	Dike Removal from WDFW lands	restoring natural meanders, restoring wetlands, restoring natural pool and riffle sequences improving riparian vegetation	proposed	
800	34	City of Maldon	Leakage repair		\$889,700
801	35	Fund Asotin & Tucannon Basin Hab. Improvement			
802	35	Tucannon River Model Watershed Plan	riparian plantings, bank stabilization, pool creation, LWD placement, sediment reduction, sediment traps, instream habitat improvement, upland plantings	on-going	
803	35	Pataha Creek Model Watershed Plan	riparian plantings, bank stabilization, sediment pool creation, sediment reduction, sediment traps, instream habitat improvement, upland plantings	ongoing	
804	35		Additional restoration projects	ongoing	
805	35	Asotin Creek Model Watershed Plan	riparian plantings, bank stabilization, pool creation, LWD placement, sediment reduction, sediment traps, instream habitat improvement, upland plantings	ongoing	
806	35	Moving campgrounds, obliteration and revegetation	restore riparian vegetation on WDFW lands that are heavily used for camping to restore salmonids	proposed	
807	35	Matching funds for model watershed activities	improve passage, improve riparian vegetation on WDFW lands, reduce sediment and improve riparian vegetation on private lands, provide for WDFW input partnerships	proposed	
808	35	Locally adapted broodstock development	develop local broodstock for steelhead enhancement efforts to restore steelhead populations consistent with WSP and ESA	proposed	

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
809	35	Locally adapted broodstock development	develop local broodstock for steelhead enhancement efforts to restore steelhead populations consistent with WSP and ESA	proposed	
810	35	Matching funds for Tucannon Model Watershed Project	improve riparian vegetation, bank stabilization, instream habitat enhancement for salmonids on WDFW lands, cost sharing for stream and riparian habitat improvements.	proposed	
811	35	Tucannon Lakes Rehab.	excavate man-made lakes and improve outlets and intakes, improve access for more stocking of hatchery trout in the lakes instead of the rivers where they compete with wild steelhead and salmon	proposed	
812	37	White Salmon	GW Source Development		\$300,000
813	37	White Salmon	Storage Tanks Project		\$753,000
814	38	Selah Ditch Habitat Project	Rebuild side channel, place large woody debris	proposed	\$9,500
815	39	Cle Elum/South Cle Elum	Joint Water System Storage		\$166,200
816	39	South Ele Elum	System Pipeline Replacement		\$86,900
817	39	Roslyn	Reservoir Improvements		\$200,000
818	39	Cle Elum/South Cle Elum	Joint Water System Transmission		\$1,073,400
819	39	Roslyn	Slow Sand Filter		\$2,200,000
820	39	Cle Elum/South Cle Elum	Joint Water System Supply		\$5,900,000
821	39	Cle Elum	System Pipeline Replacement		\$681,600
822	39	South Ele Elum	Service Meters		\$317,200
823	39	Kittitas	Metering		\$250,000
824	39	Cle Elum	Service Meters		\$894,400
825	39			potential	
826	39	Yakima River Side Channel	Placement of clean spawning gravel	proposed	\$2,500
827	41	City of Royal City	Wastewater Reuse		\$291,500
828	41	Grant Cons. Dist.	Crop covers		\$246,675

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
829	41	City of Ephrata	Wastewater Reuse		\$5,683,500
830	44	Town of Coulee Dam	Service Meters		\$690,000
831	45	WDFW/Tribal Stock Recovery Plan 7/1996	Habitat development & protection		\$400,000
832	45	Wenatchee Sub-basin	Increase instream flow	potential	\$262,661
833	45	Wenatchee Sub-basin	Purchase or obtain conservation easements	potential	
834	45	Wenatchee Sub-basin	Develop and protect riparian habitat	potential	
835	45		Restore riparian areas	potential	
836	45	Wenatchee Sub-basin	Restore riparian areas	potential	
837	45	Wenatchee Sub-basin	Fish passage	potential	\$67,792,000
838	45	Wenatchee Sub-basin	Move point of diversion - increase instream flow	potential	
839	45	Wenatchee Sub-basin	Restore riparian areas & fur-bearing mammals	potential	
840	45	Wenatchee Sub-basin	restore riparian areas	potential	
841	45	Wenatchee Sub-basin	Fish passage at Leavenworth NFH & Icicle ID dams	potential	
842	45	Wenatchee Sub-basin	Remove Tumwater Canyon Dam to improve fish passage	potential	
843	45	Wenatchee Sub-basin	Modify irrigation canals for off-channel rearing	potential	
844	45	Wenatchee Sub-basin	Holding and rearing habitat	potential	\$995,300
845	45	Wenatchee Sub-basin	Connect Nason Cr wetlands& Oxbows cutoff by Highway 2	potential	
846	45	Wenatchee Sub-basin	Connect Lower Wenatchee R wetlands cutoff by Highway 2	potential	
847	45	Wenatchee Sub-basin	Restore flood plain	potential	
848	45	Wenatchee Sub-basin	Dryden fish screen mesh replacement	potential	\$70,000
849	45	Wenatchee Sub-basin	fish passage	potential	\$176,000
850	45		Habitat Enhancement	proposed	\$400,000
851	45		Mid-Columbia Tributary Habitat Improvement Projects	proposed	\$1,465,800

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
852	46	Entiat Sub-basin	Fish passage at Entiat Falls	potential	\$300,000
853	46	Entiat Sub-basin	Correct fish passage barriers	potential	\$85,500,000
854	46	Entiat Sub-basin	Increase stream complexity - pool & instream habitat	potential	\$1,500,000
855	46	Entiat Sub-basin	Fish passage at Box Canyon	potential	\$302,046
856	46	Entiat Sub-basin	Replace or upgrad gravity diversion fish screens	potential	\$80,000
857	46	Entiat Sub-basin	Stream bank stabilization/riparian planting	potential	\$524,000
858	46	Entiat Sub-basin	Purchase or secure easements for riparian bottomlands	potential	
859	46	Entiat Sub-basin	Purchase easements for riparian bottomlands	potential	
860	46	Entiat Sub-basin	Fish passage	potential	\$35,000
861	46	Entiat Sub-basin	Reduce livestock grazing impacts	potential	
862	46	Entiat Sub-basin	Renovate side channels	potential	
863	46	Entiat Sub-basin	Rearing habitat channel	potential	
864	46	Entiat Sub-basin	Instream flow	potential	
865	46	Entiat Sub-basin	Road rehab.	potential	\$418,000
866	46		Mid-Columbia Tributary Habitat Improvement Projects	proposed	\$3,245,000
867	47		Fishway upgrade	proposed	
868	48		Fish passage		\$3,000
869	48		construct & install fish screen on irrigation diversions		\$1,000,000
870	48	Methow Basin Irrig Sys Improv	Fulon Ditch Repair		\$1,600,000
871	48	Methow Basin Irrig Sys Improv	Skyline Ditch Repair		\$2,260,000
872	48	Methow Sub-basin	Gravity diversion fish screens	potential	\$1,112,000
873	48	Methow Sub-basin	Irrigation diversions	potential	
874	48	Methow Sub-basin	Improve instream flows, eliminate fish screen needs	potential	\$861,000
875	48	Methow Sub-basin	Support water conservation measures in diversions	potential	
876	48	Methow Sub-basin	Purchase riparian bottom lands	potential	

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
877	48	Methow Sub-basin	Riparian restoration	potential	
878	48	Methow Sub-basin	Restore riparian habitat	potential	
879	48	Methow Sub-basin	Upgrade gravity irrigation diversions	potential	
880	48	Methow Sub-basin	Upgrade Williams & Richardson ditches	potential	
881	48	Methow Sub-basin	culvert replacement or sills to improve passage	potential	
882	48	Methow Sub-basin	Side channel habitat	potential	\$1,397,350,000
883	48		Mid-Columbia Tributary Habitat Improvement Projects	proposed	\$3,370,300
884	49		Planting in combo with fencing to lessen siltation problem		\$10,000
885	49	City of Omak	Abandonment of existing water supplies		\$500,000
886	49	Okanogan Sub-basin	Water conservation or water rights acquisition	potential	\$102,213
887	49	Okanogan Sub-basin	Screen WA pump-intakes	potential	
888	49	Okanogan Sub-basin	Screen WA pump-intakes	potential	
889	49	Okanogan Sub-basin	Screen BC pump-intakes	potential	
890	49	Okanogan Sub-basin	Fencing	potential	\$46,000
891	49	Okanogan Sub-basin	Revegetate	potential	
892	49	Okanogan Sub-basin	Revegetate stream banks	potential	
893	49	Okanogan Sub-basin	Improve fish passage	potential	
894	49	Okanogan Sub-basin	Revegetate stream banks	potential	
895	49	Okanogan Sub-basin	Fencing	potential	\$46,000
896	49	Okanogan Sub-basin	Watershed planning	potential	\$550,000
897	49	Okanogan Sub-basin	Fencing	potential	\$46,000
898	49	Okanogan Sub-basin	Study & remove Enloe dam	potential	\$1,800,000
899	49	Okanogan Sub-basin	Alternative 5, grazing, water quality	potential	\$3,166,625
900	49	Okanogan Sub-basin	Remove Salmon Cr diversion	potential	\$437,787
901	49		Mid-Columbia Tributary Habitat Improvement Projects	proposed	\$15,094,000
902	56	Chattaroy Springs West WD#1	Provide new water source		\$96,600
903	56	Moab Irrigation Dist #20	Extend water main		\$225,000

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
904	58	Sherman Creek Wildlife Area	Riparian Planting	planned	Planning
905	62	Metaline	Metering		\$100,000
906	62	Town of Metaline	Slow Sand Filter		\$370,000
907	62	LeClerk Creek Wildlife Area	Upland Native Planting	planned	Planning
908	15/16	Hood Canal Fish Passage Program	Design & repair 9 man-made barriers	proposed	\$300,000
909	17,18	94 Stream Fencing	Fencing	Completed	\$2,095
910	3,4		Blockage Corrections	proposed	\$31,500
911	3,4		Ovenell Property fencing	proposed	\$31,500
912	3,4		Planting	proposed	\$3,600
913	3,4		Carey's lake	proposed	\$5,600
914	3,4		Jackman Creek	proposed	\$300,000
915	33, 35	Mainstem Dam Modifications	Spillway Mod., Fish Bypass		
916	33, 35	Lower Snake R. Dams	Pump station modifications		
917	18,19,20	Culvert Survey	Culvert Upgrades & Culvert Removal needs	Proposed	\$180,000
918	18,19,20	Stream Typing Survey	Stream Typing	Proposed	\$270,000
919	18,19,20	Ambient Stream Monitoring	Assess restoration needs	Proposed	\$540,000
			county wide		
920			Wildlife Features (snag development, nursery logs)		
921			Road Decommissioning, Road Drainage Improvement		
922			Stream Typing, Culvert Upgrades, Culvert Removal		
			LWD Placement, Constructed log jams		
			Culvert Upgrades, Side-channel creation		

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRIA	Project Title	Description	Status	Cost
923			Instream habitat improvement, Riparian Planting,		
924			Side-channel creation, Side channel Reconnection		
925		Estuary Project	Bank Stabilization, Instream habitat improvement		
			LWD Placement, Remeander of stream channel		
			Road Abandonment, Road Obliteration		
			Instream habitat improvement, Wildlife Features(raptor poles)		
926			Instream habitat improvement, Riparian Planting,		
			Culvert Upgrades, Side-channel creation		
927			Side-channel creation, Side channel Reconnection		
928			Side-channel creation, Side channel Reconnection		
929			Wildlife Features (snag development, nursery logs)		
930		Washougal Plant Upgrade			\$102,000
931		Baker Sockeye spawning Beach Project	Renovation & operation of Old Beaches to increase the spawning habitat		\$670,309
932			Various pump tests		
933			Flood damage repair		\$30,000
934			Gravel cleaning		\$20,000
935			Create side channel fish habitat		\$20,000
936		Wetland Restoration Project	Clover Dale Golf Course		
937		Mattawa Sewer System			\$2,315,076
938			Fish passage		\$10,000

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRI	Project Title	Description	Status	Cost
939		Kalama Pipeline Conversion			\$500,000
940		WSDOT FP Inventory Final Report			
941		WSDOT FP Inventory			\$203,000
942		CWLI-Study irrig. divers. impact on fish habitat			\$203,381
943		Ferdale Wastewater Plant Improvements			\$5,000,000
944		Colville Side Sewer Reconstruction			\$2,500,000
945			LWD Placement, Remeander of stream channel	Planned.	
946		Demonstration Restoration Project	Invasive Plant Removal, Artificial Barrier Removal.	Planned.	
947			LWD Placement, Remeander of stream channel	and Proposed	
948			Road Abandonment, Road Obliteration	and Proposed	
949			Improve tidegate, pools, LWD, gravel, reveg, chum intro, culvert repair	completed	
950			Funds could be applied to already complete project	completed	
951			TRIBE removed culvert at mouth; habrestoration and chum RSI	completed	
952			Estuary restoration	ongoing	
953			Chum RSI to add nutrients following habitat restoration	ongoing	
954		Spawning surveys	Spawning surveys	ongoing	
955			Fish habitat enhancement	ongoing	
956		Lower Hood Canal Benthic Study	Assessing the current conditions	ongoing	
957		Fencing	Fencing on streams in E. Jefferson Co	ongoing	
958			Could use \$15,000 to enhance project	ongoing	
959		Squak Mtn Sect 9, Ph 2. #96-122A	300 acres land acquisition	planned	\$2,200,000
960		Upper Columbia River Region	Install fish screens	potential	
961		WSDOT FP Eval & Montoring		proposed	\$105,000

APPENDIX B Completed, Ongoing, and Planned Watershed Restoration and Protection Projects by WRIA

ENTRY #	WRI	Project Title	Description	Status	Cost
962		Bear Creek 1135	Salmon, trout, Vegetation	proposed	
963		Howell Farm Fencing	Install fencing & replace failed culvert	proposed	\$6,000
964			Reestablish flood plan	proposed	
965			Labor crew	proposed	\$50,000
966			Needs more spawning habitat	proposed	
967			Good candidate for restoration, daylight culvert	proposed	
968			Fish passage	proposed	\$3,000
969			Spawning beach enhancement	proposed	\$1,340,618
970			Side channel improvement	proposed	\$20,000
970			Side channel improvement	proposed	\$20,000
971			Model Watershed Project Implementation	proposed	\$616,000